

Ifw



## TRANSMITTAL LETTER

In re Application of:  
Zongchao ZHANG et al.

Serial No.: 10/565,549

Int'l Application No.: PCT/EP2004/008008  
Int'l Filing Date: July 1, 2004

For: METAL ION EXCHANGE SOLID  
MATERIALS AS CATALYSTS FOR THE  
ARYLATION AND THE SKELETAL  
ISOMERIZATION OF FATTY ACIDS AND  
ALKYL ESTERS THEREOF

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Docket: ACA 6316 P1US

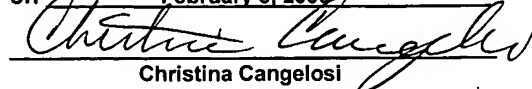
Group Art Unit:

Examiner:

### CERTIFICATE OF MAILING

I hereby certify that this correspondence is being  
deposited with the United States Postal Service as  
First-Class mail in an envelope addressed to:  
Commissioner for Patents, P. O. Box 1450,  
Alexandria, VA 22313-1450

on February 8, 2006

  
Christina Cangelosi

Sir:

☒ Transmitted herewith find the document(s) related to this application.

TRANSMITTAL LETTER IN DUPLICATE; INFORMATION DISCLOSURE STATEMENT;  
PTO-1449 FORM; DOCUMENTS (13); CERTIFICATE OF MAILING; AND POST CARD.

- ☐ Applicant hereby petitions for an extension of time under 37 CFR 1.136 of:
- |   |  |
|---|--|
| <input type="checkbox"/> One Month (\$120.00)     | <input type="checkbox"/> Two Months (\$450.00)   |
| <input type="checkbox"/> Three Months (\$1020.00) | <input type="checkbox"/> Four Months (\$1590.00) |

The total fee believed due is \$ 0.00. Please charge this amount and any other fees,  
which may be due (including filing fees under 37 CFR 1.16 and processing fees under 37  
CFR 1.17) to Deposit Account No. 01-1350. If an extension of time is required but has not  
been requested above, Applicant hereby petitions for an extension of time sufficient for the  
attached document(s) to be timely. A duplicate copy of this sheet is enclosed.

Respectfully submitted,



Ralph J. Mancini  
Attorney for Applicant(s)  
Reg. No. 34,054

Akzo Nobel Inc.  
Intellectual Property Dept.  
7 Livingstone Avenue  
Dobbs Ferry, NY 10522-3408  
Tel No.: (914) 674-5465



## PATENT

### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

-----  
In re Application of: :  
Zongchao ZHANG et al. :  
Serial No.: 10/565,549 :  
Int'l Application No.: PCT/EP2004/008008 :  
Int'l Filing Date: July 1, 2004 :

For: METAL ION EXCHANGE SOLID  
MATERIALS AS CATALYSTS FOR THE  
ARYLATION AND THE SKELETAL  
ISOMERIZATION OF FATTY ACIDS AND  
ALKYL ESTERS THEREOF  
-----

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Docket: ACA 6316 P1US

Group Art Unit:

Examiner:

#### **CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being  
deposited with the United States Postal Service as  
First-Class mail in an envelope addressed to:  
Commissioner for Patents, P. O. Box 1450,  
Alexandria, VA 22313-1450

on February 8, 2006

*Christina Cangelosi*  
Christina Cangelosi

### INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the requirements of 37 CFR §1.56, applicants submit the documents attached hereto. Pursuant to the United States Patent and Trademark Office, OG Notice 05 August 2003, applicants have excluded copies of the ten (10) U.S. patent documents. All documents are to be made of record in the above-identified case. A listing of said documents on form PTO-1449 is also attached.

The present Information Disclosure Statement is being filed within three months of entrance into the U.S. National stage; therefore, no filing fee is believed to be required. If a filing fee is required, the Commissioner is hereby authorized to charge applicants' deposit account 01-1350 for the full amount of said fee.

A copy of the International Search Report dated October 26, 2004 is enclosed herewith.

Chinese Patent Application No. 01135624.3 is not in the English language, however, the equivalent is U.S. Patent No. 5,686,935, is cited herewith.

This statement is not intended to represent that no better art exists. Applicants reserve the right to contest the applicability of the documents attached hereto as prior art in the event that any information is discovered which demonstrates that said documents do not qualify as prior art.


Consideration of the present Information Disclosure Statement is respectfully requested. The claimed invention is, however, deemed to represent a patentable departure from the teachings of the prior art.

Respectfully submitted,


A handwritten signature in black ink, appearing to read "Ralph J. Mancini", written over a horizontal line.

Ralph J. Mancini  
Attorney for Applicants  
Registration No.: 34,054

Akzo Nobel Inc.  
Patent and Trademark Dept.  
7 Livingstone Avenue  
Dobbs Ferry, NY 10522-3408  
(914) 674-5465

<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)  PTO-1449 (modified)			Atty. Docket # ACA 6316 P1US		Serial No. 10/565,549	
			Applicant Zongchao ZHANG et al.			
			Int'l Filing Date July 16, 2004		Group Art Unit	
<b>U.S. PATENT DOCUMENTS</b>						
Init	Document No.	Issue Date	Name	Class	Subclass	Filing Date
	3,865,894	2/11/1975	Kirsch et al.	260	683.43	
	5,034,161	7/3/1991	Alink	260	413	
	5,440,059	8/8/1995	Alink	554	220	
	5,840,942	11/24/1998	Oude Alink	554	162	
	2003/0100780 A1	5/29/2003	Zhang et al.	554	125	
	5,817,831	10/6/1998	Rhubright et al.	548	447	
	3,192,239	6/29/1965	Ault et al.	260	399	
	2,275,312	3/3/1942	Tinker et al.	260	515	
	3,251,897	5/17/1966	Wise	260	671	
	5,686,935	11/11/1997	Weisbrod (Equivalent to CN 01135624.3)	345	100	
<b>FOREIGN PATENT DOCUMENTS</b>						
	Document No.	Publ. Date	Country	Class	Subclass	Translation
						Y    N
	GB 1,120,309	7/17/1968	Great Britain	C07C	63/52	
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)</b>						
	International Search Report, No.: PCT/EP2004/008008, 26 October 2004					
	Kohashi et al., "Addition of Aromatic compounds to Oleic Acid Catalyzed by Heterogeneous Acid Catalysts," JAOCS, Vol. 61, No. 6, pages 1048-1051 (June 1984)					
	Zhang et al., "Strongly Acid and High-Temperature Hydrothermally Stable Mesoporous Aluminosilicates with Ordered Hexagonal," Angew. Chem. Int. Ed. 40, No. 7, pages 1258-1262 (2001)					
	Zhang et al., "Mesoporous Aluminosilicates with Ordered Hexagonal Structure, Strong Acidity, and Extraordinary Hydrothermal Stability at High Temperatures," J. Am. Chem. Soc., 123, pages 5014-5021 (2001)					
	Han et al., "A Novel method for Incorporation of Heteroatoms into the Framework of Ordered Mesoporous Silica Materials Synthesized in Strong Acidic Media," J. Phys. Chem. B, 105, pages 7963-7966 (2001)					
<b>EXAMINER</b>				<b>DATE CONSIDERED</b>		

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)  				Atty. Docket #		Serial No.	
				ACA 6316 P1US		10/565,549	
				Applicant Zongchao ZHANG et al.			
				Int'l Filing Date July 16, 2004		Group Art Unit	
<b>U.S. PATENT DOCUMENTS</b>							
Init	Document No.	Issue Date	Name	Class	Subclass	Filing Date	
<b>FOREIGN PATENT DOCUMENTS</b>							
	Document No.	Publ. Date	Country	Class	Subclass	Translation	
						Y	N
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)</b>							
	Liu et al., "Steam-Stable Aluminosilicate Mesostructures Assembled from Zeolite Type Y Seeds," J. Am. Chem. Soc., 122, pages 8791-8792 (2000)						
	Liu et al., "Steam-Stable MSU-S Aluminosilicate Mesostructures Assembled from Zeolite ZSM-5 and Zeolite beta Seeds," Angew. Chem. Int. Ed., 40, No. 7, pages 1255-1258 (2001)						
	Han et al., "Hydrothermally Stable Ordered Hexagonal Mesoporous Aluminosilicates Assembled from a Triblock Copolymer and Preformed Aluminosilicate Precursors in Strongly Acidic Media," Chem. Mater., 14, pages 1144-1148 (2002)						
	Smith et al., "Isomeric Arylsteoric Acids," Eastern Regional Research Laboratory, vol. 30, pages 885-888 (March 1965)						
	Smith et al., "Phenylsteoric Acids and Related Compounds Isolation of 17-, 16-, 15- and 13-Phenyl Isomers <sup>1</sup> ," Journal of the American Oil Chemist's Society, vol. 48, pages 160-162 (April 1971)						
	Smith et al., "Isomeric Phenylsteoric Acids and Related Compounds: Composition and Partial Separation <sup>1</sup> ," Journal of the American Oil Chemist's Society, vol. 45, pages 747-749 (November 1968)						
	Nakano et al., "Methanesulfonic Acid Catalyzed Addition of Aromatic Compounds to Oleic Acid," Journal of American Oil Chemist's Society, vol. 61, no. 3, pages 569-573 (March 1984)						
<b>EXAMINER</b>				<b>DATE CONSIDERED</b>			

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.